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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,577	12/21/2001	Peter Scherti	Mo6856/LeA 33,769	1797
7590 12/14/2006			EXAMINER	
LANXESS CORPORATION			RABAGO, ROBERTO	
LAW & INTEL	LECTUAL PROPERTY	DEPT.		
111 RIDC PARK WEST DR.			ART UNIT	PAPER NUMBER
PITTSBURGH, PA 15275-1112			1713	
		•	DATE MAILED: 12/14/2006	·.

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/019,577	SCHERTL ET AL.	
Office Action Summary		Examiner	Art Unit	
		Roberto Rábago	1713	
The N Period for Reply	IAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence address	
WHICHEVER - Extensions of ti after SIX (6) MC - If NO period for - Failure to reply Any reply receive	R IS LONGER, FROM THE MAILII me may be available under the provisions of 37 (DNTHS from the mailing date of this communicat	NG DATE OF THIS COMMUNION CFR 1.136(a). In no event, however, may a right ion. period will apply and will expire SIX (6) MON or statute, cause the application to become AB	reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1) Respo	nsive to communication(s) filed on	29 November 2006.		
· ·	` ' _	This action is non-final.	.•	
3)☐ Since t	his application is in condition for a	llowance except for formal matt	ters, prosecution as to the merits is	
closed	in accordance with the practice ur	nder <i>Ex par</i> te <i>Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of C	Claims			
4) Claim(s	s) <u>1,3-5,7,9-11,16,19 and 21</u> is/are	pending in the application.		
	the above claim(s) is/are wi			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,3-5,7,9-11,16,19 and 21</u> is/are	e rejected.		
· ·	s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Pap	ers			
•	ecification is objected to by the Exa			
10)∐ The dra	wing(s) filed on is/are: a)[] accepted or b) ☐ objected to	by the Examiner.	
Applica	nt may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
		•	(s) is objected to. See 37 CFR 1.121(d).	
11)∐ The oat	th or declaration is objected to by t	he Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 3	5 U.S.C. § 119			
	vledgment is made of a claim for for b) \Box Some * c) \Box None of:	oreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
·	Certified copies of the priority docu	ments have been received.		
	Certified copies of the priority docu		pplication No.	
	Copies of the certified copies of the			
	application from the International E	•	-	
* See the	attached detailed Office action for	a list of the certified copies not	received.	
Attachment(s)				
	ronger Cited (PTO 902)	🗖		

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____.

4) 🔲	Interview Summary (PTO-413)
	Paper No(s)/Mail Date
5) 🔲	Notice of Informal Patent Application
6) 🔲	Other:

DETAILED ACTION

Continued Examination

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/29/2006 has been entered.

Claim Rejections - 35 USC § 112

2. Claims 4, 5, 7 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Each of claims 4 and 5 (and claims 7 and 10 by dependency) recites a cocatalyst first as optional, then later as required, and therefore the status of the cocatalyst cannot be determined.

Claim Rejections - 35 USC § 103

3. Claims 1, 3-5, 7, 9-11, 16, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirooka et al. (US 3,700,648) for the reasons set forth in item 3 of the Office action mailed 9/14/2005.

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Applicants' arguments filed 11/29/2006 have been fully considered but they are not persuasive. Applicants persist in maintaining that the reference fails to disclose the required transition metal species, particularly with respect to the Q substituent. However, repeating from the prior Office action, the acetylacetonate (acac) ligand is a monoanionic 2-dentate ligand, and therefore this ligand is within the scope of both L and Q. Since the cited reference species have at least two acac ligands, the first functions as L and the second functions as Q. There is nothing in the claims which requires L and Q to be different, and therefore the reference species are within the scope of transition metal compounds required in the claims. Applicants' argument regarding the cocatalyst recommended in the reference is entirely without basis, because the instant claims also include the optional or required presence of a cocatalyst; applicants have clearly structured their claims to include as catalyst the reaction product of the transition metal compound and a cocatalyst. Finally, applicants continue with their earlier argument regarding the required transition metal compound. However, it is repeated that that the reference explicitly suggests use of the required transition metal compounds at col. 11, lines 14-17, in the form of chromium, iron, cobalt and nickel acac complexes.

4. Claims 5, 7, 9, 10, 16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lipian et al. (US 6,455,650) for the reasons set forth in item 4 of the Office action mailed 9/14/2005.

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Applicant's arguments filed 11/29/2006 have been fully considered but they are not persuasive. Applicants argue that the reference does not disclose copolymerization of polar and non-polar monomers. However, none of the claims require the copolymerization of polar and non-polar monomers, and therefore the reference need not disclose such use. Claims 5, 7, 9, 16 and 19 are composition claims with an intended use limitation; the reference disclosure meets the intended use limitation if it is capable of such use. In this case, the reference composition is clearly capable of copolymerization of polar and non-polar monomers because this use has been clearly suggested; as previously stated, most of the working examples are copolymerizations of polar and non-polar norbornenes, and the descriptions at col. 29-37 disclose a wide array of polar and non-polar monomers for copolymerization. Claim 10 is a method claim, but is not limited to any particular monomers. Applicants further argue that Lipian fails to disclose the required transition metal compound on the grounds that L' or L" must be removed to arrive at the claimed structure. However, Q is defined in applicants' claims as a mono-anionic or non-ionic ligand, and therefore the reference groups L' and L" (which are non-ionic groups) are within the scope of Q, and need not be removed to meet the claimed structure.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberto Rábago Primary Examiner

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RR

December 8, 2006